

**Stancescu**: Explosive potential in carbon dioxide at high pressures. Experiments with carbon dioxide at pressures between five and forty-five atmospheres, and with striking distance between the plates ( $d$ ) varying between 0.34 mm. and 2.24 mm., proved that the explosive potential  $V = F(md)$ , where  $m$  is the number of molecules in unit volume of gas.—**P. Woog** and **J. Sarriau**: A method of observation and measurement of rapidly periodic magnetic phenomena. An application of the Koenig manometric capsule.—**M. Trabut**: The hybrid origin of cultivated lucerne.—**A. Guilliermond**: The alterations and the characters of the chondriome in the epidermal cells of the tulip flower.

### BOOKS RECEIVED.

The Secretion of Urine. By Prof. A. R. Cushny. Pp. xi+241. (London: Longmans and Co.) 9s. net.  
The Borderlands of Science. By Dr. A. T. Schofield. Pp. viii+255. (London: Cassell and Co., Ltd.) 6s. net.  
The Distribution of Attention. By E. N. McQueen. Pp. vi+142. (Cambridge: At the University Press.) 5s. net.  
Electric and Magnetic Measurements. By C. M. Smith. Pp. xii+373. (New York: The Macmillan Co.; London: Macmillan and Co., Ltd.) 10s. 6d. net.  
Science Francaise Scolastique Allemande. By Prof. G. Papillault. Pp. 154. (Paris: F. Alcan.) 2 fr. 50.  
Theophrastus: Enquiry into Plants, and Minor Works on Odours and Weather Signs. With an English translation by Sir A. Hort. (Loeb Classical Library.) 2 vols. Vol. i., pp. xxviii+474; vol. ii., pp. ix+499. (London: W. Heinemann.) 5s. net each vol.  
Stresses in Wire-wrapped Guns and in Gun Carriages. By Lt.-Col. C. d'H. Ruggles. Pp. xi+259. (New York: J. Wiley and Sons, Inc.; London: Chapman and Hall, Ltd.) 13s. 6d. net.  
The Chemistry of Dyestuffs. By M. Fort and Dr. L. L. Lloyd. Pp. xi+311. (Cambridge: At the University Press.) 7s. 6d. net.  
The Mexican Indians North of Mexico. By W. H. Miner. Pp. xi+169. (Cambridge: At the University Press.) 3s. net.  
Ethnobotany of the Tewa Indians. By W. W. Robbins, G. P. Harrington, and B. Freire-Marreco. Pp. xii+124. (Washington: Government Printing Office.)

### DIARY OF SOCIETIES.

#### THURSDAY, MAY 3.

ROYAL SOCIETY, at 4.—Election of Fellows. At 4.30.—Croonian Lecture: The Excitation Wave in the Heart: Dr. Thomas Lewis.  
ROYAL INSTITUTION, at 3.—Pagan Religion at the Time of Coming of Christianity: Prof. Gilbert Murray.  
MATHEMATICAL SOCIETY at 5.30. Sir George Stokes and the Theory of Uniform Convergence: G. H. Hardy.—A Symmetrical Condition for  $\omega$ -Apolars Triads on a Cubic Curve: Dr. W. P. Milne  
IRON AND STEEL INSTITUTE, at 10.30 a.m.—Steel Ingot Defects: J. N. Kilby.—Influence of Surface Tension on the Properties of Metals, especially of Iron and Steel: F. C. Thompson.  
INSTITUTE OF METALS, at 8.30.—Seventh May Lecture: Researches made Possible by the Autographic Load-Extension Optical Indicator: Prof. W. E. Dalby.  
LINNEAN SOCIETY, at 8.—A Monograph of the Genus *Fumaria*: H. W. Pugsley.—The Flowers of the Ma'ua, *Bassia latifolia*, Roxb.: G. M. Ran.—An Autograph of Vice-Admiral Bligh (1754-1817): C. D. Sherborn.—Two Critical Plants of the Greek Flora: C. C. Lacaita.—(1) *Paracubaris*, a New Genus and Species of Terrestrial Isopoda from British Guiana; (2) The Oral Appendages of Certain Species of Marine Isopoda: Dr. W. E. Collinge.  
CHEMICAL SOCIETY, at 8.—Researches on Asymmetric Nitrogen Compounds. I.: 5-Aminosalicylic Acid and Related Compounds; II.: Some Nitroated Oxidiphenylamines; III.: Onxyphenylglycine: The late R. Melola. H. S. Foster, and R. Brightman.—Contributions to the Chemistry of Caramel. I.: Caramelan: Miss M. Cunningham, and C. Doree.

#### FRIDAY, MAY 4.

ROYAL INSTITUTION, at 5.30.—Some Guarantees of Liberty: H. Wickham Steed.  
IRON AND STEEL INSTITUTE, at 10 a.m.—The Penetration of the Hardening

Effect in Chromium and Copper Steels: L. Grenet.—Cementation by Gas under Pressure: F. C. Langenberg.—Origin and Development of the Railway Rail: G. P. Raidebaugh.—Case Hardening of Iron by Boron: N. Tschischewsky.—Determination of the Line S.E. in the Iron-Carbon Diagram by Etching Sections at High Temperatures *in vacuo*: N. Tschischewsky and N. Schulgin.

GEOLOGISTS' ASSOCIATION, at 7.30.—The Correlation of the Ingletonian Slates: J. F. N. Green.—The Landships of Folkestone Warren and the Thickness of the Lower Chalk and Gault near Dover: C. W. Osman.

#### SATURDAY, MAY 5.

ROYAL INSTITUTION, at 3.—The Electrical Properties of Gases: Sir J. J. Thomson.

#### MONDAY, MAY 7.

VICTORIA INSTITUTE, at 4.30.—The Pre-requisites of a Christian Philosophy: Rev. Dr. Whately.  
ARISTOTELIAN SOCIETY, at 8.—The Basis of Critical Realism: Prof. G. Dawes Hicks.  
ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Race and Nationality: Dr. Marion Newbigin.  
ROYAL SOCIETY OF ARTS, at 4.30.—The National Shortage of Iron Ore Supplies. II.: Oversea Iron Fields which Supply the British Market: Prof. W. G. Fearnside.  
SOCIETY OF ENGINEERS, at 5.30.—The Goods Clearing House System Explained: Lord Headley.

#### TUESDAY, MAY 8.

ROYAL INSTITUTION, at 3.—Rhythmic Action in Muscle and in Nerve: Prof. C. S. Sherrington.

#### WEDNESDAY, MAY 9.

ROYAL SOCIETY OF ARTS, at 4.30.—Works Organisation and Efficiency: Prof. W. Ripper.

#### THURSDAY, MAY 10.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: Permanent Periodicity in Sunspots: Sir Joseph Larmor and N. Yamaga.—The High-frequency Resistance of Multiply Stranded Insulated Wire: Prof. G. W. O. Howe.  
ROYAL INSTITUTION, at 3.—Pagan Religion at the Time of the Coming of Christianity: Prof. Gilbert Murray.

#### FRIDAY, MAY 11.

ROYAL INSTITUTION, at 5.30.—Radioactive Haloes: Prof. J. Joly.  
ROYAL ASTRONOMICAL SOCIETY, at 5.

#### SATURDAY, MAY 12.

ROYAL INSTITUTION, at 3.—The Electrical Properties of Gases: Sir J. J. Thomson.

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